

## Constant Air Flow Regulators - Technical Specifications

### Features & Benefits

- Self adjusting on the pressure range 50 to 250 Pa
- Easy adjustment
- Use with a maximum temperature of 60°C
- The requested air flow is easily adjusted by a screwdriver



### Constant Airflow regulators TCAFR

The Constant Air flow regulator is an element placed inside the duct in order to obtain a constant flow within a pressure range from 50 to 250 Pascals.

It is used in air conditioning or ventilation systems either in extraction or blowing mode.

The self adjusting Air flow regulator can be adjusted on sites according to the requested air flow. The marks on the sides of the opening indicate the settings.



### Specifications

Model	Description
Constant Airflow regulator	Pressure range from 50 to 250 Pascal

### Technical facts

Material	Polystyrene
Colour	Black

## Components

Made in plastic material (polystyrene) classified M1. Use with maximum temperature of 60 °C.

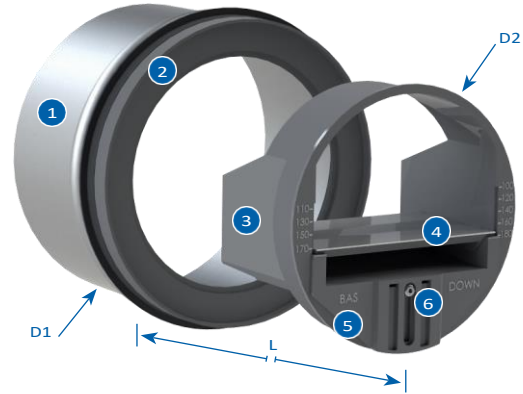


## Dimensions

Constant Airflow regulator  $\varnothing$  80 - 100 mm

Model	D1	D2	L
$\varnothing$ 80	76	76	55
$\varnothing$ 100	96	93	70

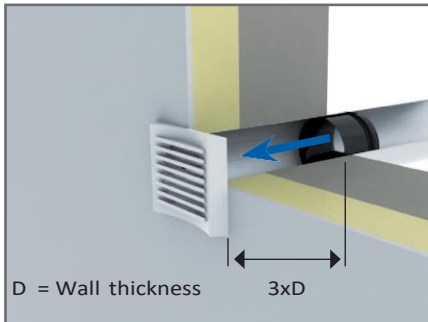
1. Sleeve with lip seal
2. Cale (according to the air flow)
3. Regulator casing
4. Flap
5. Air flow setting
6. Screw to fix the air flow



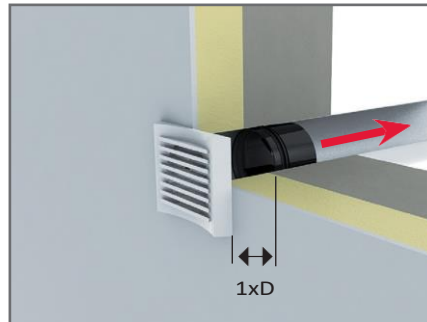
## Dimensions

Constant Airflow regulator  $\varnothing$  125 - 250 mm

Model	D1	D2	L
$\varnothing$ 125	120	117	86
$\varnothing$ 150	146	148	91
$\varnothing$ 160	146	148	91
$\varnothing$ 200	190	195	91
$\varnothing$ 250	245	236	127

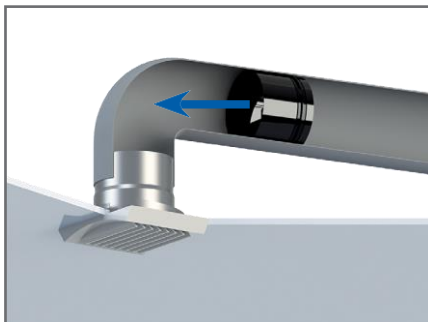


Flow regulator in blowing mode

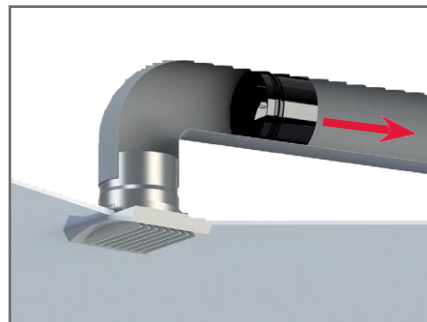


Flow regulator in extraction mode

The Air flow regulators are simply fitted into vertical or horizontal ducts. On the horizontal duct, respect the mention «DOWN» indicated at the front of the product. A leap seal ensures the airtightness.



Flow regulator in blowing mode



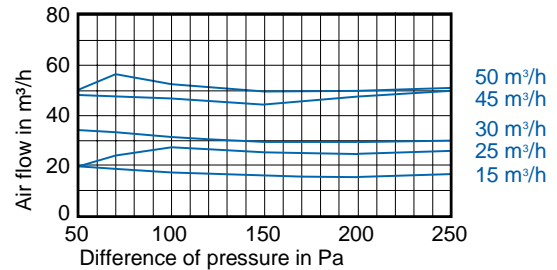
Flow regulator in extraction mode

When the Air flow regulator is associated with a diffuser, the minimum distance between the diffuser and the Air flow regulator is at least one diameter in extraction mode and 3 diameter in blowing mode.

### Air flow regulator 80

Model	Description of air flow settings	Art no
Ø80 mm	15-25-30-45-50 m <sup>3</sup> /h	490801

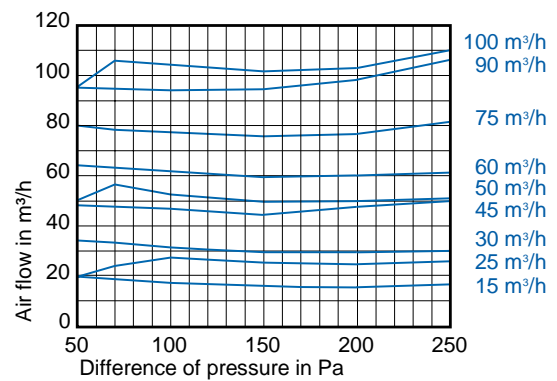
Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
50	32	37	39	42



### Air flow regulator 100

Model	Description of air flow settings	Art no
Ø100 mm	15-25-30-45-50 m <sup>3</sup> /h	491001
Ø100 mm	50-60-75-90-100 m <sup>3</sup> /h	491005

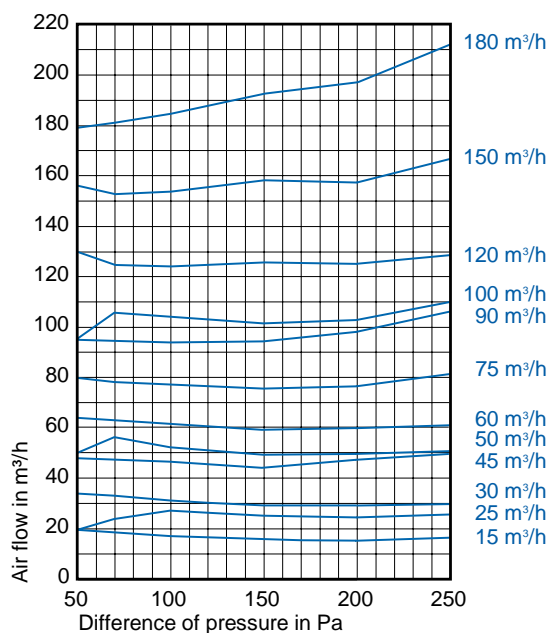
Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44



### Air flow regulator 125

Model	Description of air flow settings	Art no
Ø125 mm	15-25-30-45-50 m <sup>3</sup> /h	491201
Ø125 mm	50-60-75-90-100 m <sup>3</sup> /h	491205
Ø125 mm	100-120-150-180 m <sup>3</sup> /h	491210

Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
15	25	29	32	35
30	26	31	35	38
45	27	33	36	39
60	32	37	39	42
75	32	37	40	42
90	32	38	41	44
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47





## Air flow regulator 150

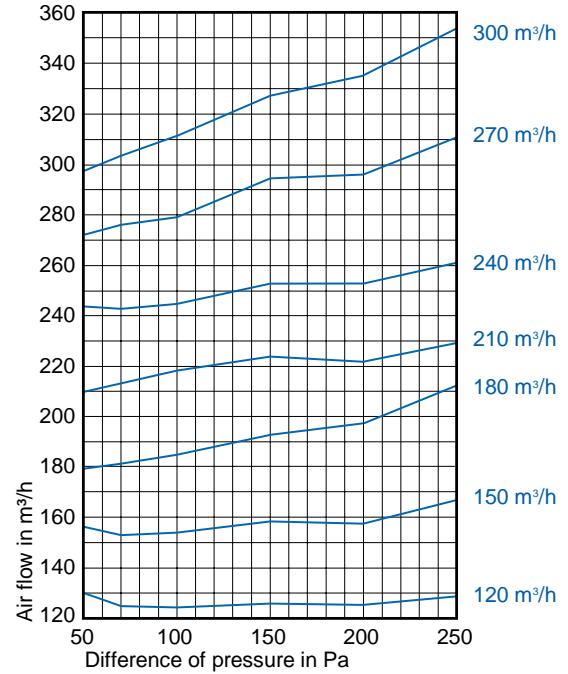
Model	Description of air flow settings	Art no
Ø150 mm	100-120-150-180 m <sup>3</sup> /h	491510
Ø150 mm	180-210-240-250-270-300 m <sup>3</sup> /h	491518

Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45

## Air flow regulator 160

Model	Description of air flow settings	Art no
Ø160 mm	100-120-150-180 m <sup>3</sup> /h	491610
Ø160 mm	180-210-240-250-270-300 m <sup>3</sup> /h	491618

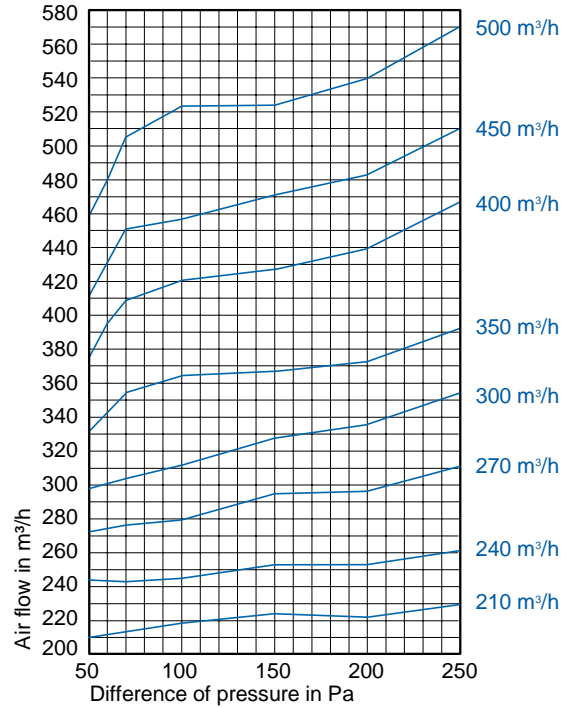
Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
120	30	37	39	42
150	33	37	41	45
180	34	40	44	47
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45



### Air flow regulator 200

Model	Description of air flow settings	Art no
Ø200 mm	180-210-240-250-270-300 m <sup>3</sup> /h	492018
Ø200 mm	300-350-400-450-500 m <sup>3</sup> /h	492030

Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
210	34	40	42	44
240	35	41	44	47
270	37	43	45	49
300	33	37	42	45
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53



### Air flow regulator 250

Model	Description of air flow settings	Art no
Ø250 mm	300-350-400-450-500 m <sup>3</sup> /h	492530
Ø250 mm	500-550-600-650-700 m <sup>3</sup> /h	492550

Air flow m <sup>3</sup> /h	Lw in dB (A)			
	50 Pa	100 Pa	150 Pa	200 Pa
300	33	37	42	45
350	35	40	44	47
400	37	42	45	50
450	38	44	46	51
500	39	46	48	53

